

# Xiang Ji

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## EDUCATION

### UNIVERSITÄT TÜBINGEN

MA IN COMPUTATIONAL LINGUISTICS  
Grad. Mar. 2019 | Tübingen, Germany  
GPA: 1.1 (Best possible 1.0)

### UNIVERSIDAD CATÓLICA DE CHILE

COMPUTER ENGINEERING (EXCHANGE)  
Aug. 2013 - Jun. 2014 | Santiago de Chile

### UNIVERSITY OF HONG KONG

BENG IN COMPUTER SCIENCE  
Grad. May 2016 | Hong Kong

## LINKS

Blog: [xiangji.me](http://xiangji.me)  
StackExchange: [xji](https://stackoverflow.com/users/1041222/xji)  
Github: [xji](https://github.com/xji)

## TALKS

*Comparing Actor Model and CSP Concurrency with Elixir and Clojure* (Code BEAM STO 2022 & ElixirConfEU 2022)

## SKILLS

### PROGRAMMING

Comfortable:

Elixir • JavaScript • HTML • CSS

Familiar:

Python • Ruby • Erlang • Haskell • R •

Julia • Rust • Java • C • SQL

Miscellaneous:

Vim • Git • Unix • Docker • GraphQL •

React • RabbitMQ • TensorFlow •  $\LaTeX$

### LANGUAGES

Native:

Mandarin Chinese

Professional working proficiency:

English (SAT 1490/1600) •

German (C1-C2) • Spanish (C1) •

Japanese (N1)

Limited working proficiency:

Cantonese

## COURSEWORK

Functional Programming

Programming Languages

Compiling Techniques

Distributed Computing

Deep Learning for NLP

Information Retrieval

Bayesian Data Analysis and Modeling

Mobile Application Design and Programming

Operating Systems

Computer Networking

## EXPERIENCE

### REMOTE TECHNOLOGY INC. | SENIOR BACKEND ENGINEER

Jan 2022 – Present | Berlin/Remote

- I work with more than 100 engineering peers at Remote. The backend is fully written in Elixir.
- Bootstrapped the newly established Mobility team.
- Mentor other developers who have started learning Elixir and who would like to develop their skills.
- Propose and implement refactorings across the Elixir codebase, which ensure code quality, reduce errors, and increase developer productivity.
- Serve on the RFC committee to facilitate discussions of and final decisions on RFC proposals in the Engineering department.
- Review code exercises and interview developer candidates.

### KLOECKNER.I | BACKEND ENGINEER – SENIOR BACKEND ENGINEER

May 2019 – Dec 2021 | Berlin

- Scaled Elixir projects by clustering BEAM VM nodes deployed with Kubernetes.
- Involved in design decisions including an event-driven architecture using RabbitMQ.
- Designed and built REST/GraphQL endpoints from scratch.
- Frontend development in Vue.js.
- Led two squads that delivered the assigned epics ahead of schedule.
- Perform job interviews and on-call duty. Regularly contribute to the *engineering blog*.

### \_MAGPIE PROJECT | ELIXIR DEVELOPER

May 2017 – March 2019 | Tübingen

- *\_magpie* is an open-source framework for online linguistics/psychology experiments initiated by *Prof. Michael Franke*.
- Solely developed the *backend* which supports real-time interactive experiments similar to online multiplayer games, using Phoenix Channels.
- Deployed and administered the project on the university server and on Heroku. Set up CI/CD pipeline.
- Contributed to *frontend* development first in plain JS, then in Vue.js.
- More than a hundred experiments have been conducted by researchers at Uni Tübingen/Osnabrück/Stanford using the framework.

### SPACIOUS | SOFTWARE ENGINEER

September 2014 – May 2015 | Hong Kong

- Full-stack web development with Ruby on Rails and JavaScript.

## RESEARCH

### HKU PROGRAMMING LANGUAGE GROUP | RESEARCH ASSISTANT

July 2015 - May 2016 | The University of Hong Kong

- Worked under *Dr. Bruno C.d.S. Oliveira* on a modular programming language prototyping framework powered by Oracle Graal/Truffle.

## PROJECTS

### TYPIST.ROCKS | SIDE PROJECT

2018

- *Typist.rocks* is a website for practicing touch typing skills.
- Full-stack web development with Phoenix Framework and Typescript.